

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Area 1		Boring Name 1-26
DRILLING COMPANY Water Development	DRILLER Brian Fulce	Project Name Douglas Aircraft
DRILLING METHOD (S) CME-95, Hollow Stem Auger	DRILL BIT (S) SIZE 8 inches	Project Number 974002.00
DEPTH TO WATER Not Encountered		ELEVATION Not Surveyed
LOGGED BY D. Schneeberger		TOTAL DEPTH 51.5 feet
		DATE STARTED 2/27/97
		DATE COMPLETED 2/27/97

SAMPLES				Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration (blows/foot)					
			8	0.6		CL	5YR N2.5/1	Asphalt, 6" Silty CLAY: reddish black, medium stiff, damp, moderately plastic
			10					
			12					
			5					
			5	0.9			2.5YR 4/4	reddish brown
			7					
			4					
			10					
			18	5			2.5YR 3/4	dark reddish brown, increasing silt, trace of sand
			10	10		CL	2.5YR 4/4	Sandy CLAY: reddish brown, very stiff, moist, moderately plastic
			18					
			21					
				15			2.5YR 4/4	increasing sand and silt, slightly plastic
			5	20				increasing clay, moderately plastic
			10					
			18					
				25	ML	2.5YR 4/4		SILT: reddish brown, very stiff, damp, slightly plastic, trace of sand
				30	CL	2.5YR 4/4		CLAY: reddish brown, very stiff, moist, moderately plastic
				35	ML	2.5YR 4/4		SILT: reddish brown, very stiff, damp, slightly plastic, trace of sand
			7	40	CL	2.5YR 4/4		Sandy CLAY: reddish brown, very stiff, moist, slightly plastic, trace of silt
			12					
			15					
				40	ML	2.5YR 4/4		SILT: reddish brown, very stiff, moist, slightly plastic, trace of fine sand and clay
				40	SM	5YR 5/4		Silty SAND: reddish brown, medium dense, damp, trace of clay
				40	ML	2.5YR 4/4		SILT: reddish brown, very stiff, moist, slightly plastic, trace of fine sand and clay
				40	CL	2.5YR 4/4		CLAY: reddish brown, very stiff, moist, slightly plastic, trace of silt
				40	ML	2.5YR 4/4		SILT: reddish brown, hard, damp, slightly plastic, trace of fine sand
			7	1.2				
			15					
			19					

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Area 1		Boring Name 1-26
DRILLING COMPANY Water Development	DRILLER Brian Fulce	Project Name Douglas Aircraft
DRILLING METHOD (S) CME-95, Hollow Stem Auger	DRILL BIT (S) SIZE 8 inches	Project Number 974002.00
DEPTH TO WATER Not Encountered		ELEVATION Not Surveyed
LOGGED BY D. Schneeberger		TOTAL DEPTH 51.5 feet
		DATE STARTED 2/27/97
		DATE COMPLETED 2/27/97

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration Resistance (lb/inch)	Head Space Reading (in)					
					45		ML	2.5YR 4/4	SILT (Continued): reddish brown, hard, damp, slightly plastic, trace of fine sand
							CL	5YR 3/4	CLAY: dark reddish brown, hard, moist, moderately plastic, trace of fine sand
			17 26 30	0.6	50		SP	5YR 5/8	SAND: yellowish red, dense, damp, fine, trace of silt
					55				Boring terminated at 51.5 feet.
					60				
					65				
					70				
					75				
					80				

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION		Boring Name 1A-5A	
Area 1A- Border with International Light Metals		Project Name Douglas Aircraft	
DRILLING COMPANY	DRILLER	Project Number 974002.00	
Water Development	Brian Fulce		
DRILLING METHOD (S)	DRILL BIT (S) SIZE		
CME-95, Hollow Stem Auger	8 inches		
DEPTH TO WATER		ELEVATION	TOTAL DEPTH
Not Encountered		Not Surveyed	50 feet
LOGGED BY		DATE STARTED	DATE COMPLETED
K. Knight		3/4/97	3/4/97

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration Resistance (blows/ft)	Head Space Reading (ft)					
									Asphalt, 3" ballast
			3 3 4 6 19 30	0.3 2.8		CH	10YR 2/2		CLAY: very dark brown, slightly moist, firm, highly plastic
					5	ML	2.5Y 4/4		SILT with Clay and Fine Sand: olive brown, dry to slightly moist, very stiff
			6 7 9	4.1	10	SM	10YR 4/3		Silty SAND: brown, dry to slightly moist, medium dense
					15				increasing moisture
			3 6 9	2.5	20				increasing silt, with clay-rich streaks
					25	SP	2.5Y 6/6		SAND: light olive yellow, fine, dry to slightly moist, medium dense, with shell fragments
			18 23 25		30				areas with large shell nodules from 28-31 feet
					35				increasing grain size, 20% fine to medium sand
			8 16 10		40				area with large shell fragments from 39-46 feet

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Area 1A- Border with International Light Metals		Boring Name 1A-5A	
DRILLING COMPANY Water Development		DRILLER Brian Fulce	
DRILLING METHOD (S) CME-95, Hollow Stem Auger		DRILL BIT (S) SIZE 8 inches	
DEPTH TO WATER Not Encountered		ELEVATION Not Surveyed	TOTAL DEPTH 50 feet
LOGGED BY K. Knight		DATE STARTED 3/4/97	DATE COMPLETED 3/4/97
PROJECT NUMBER 974002.00			

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration Resistance (blow/foot)	Head Space Reading (SPM)					
			9 12 18	0.6	45		SP	2.5Y 6/6	SAND (Continued): light olive yellow, fine, dry to slightly moist, medium dense, with abundant shell fragments
									decreasing shell fragments
					50				no shell fragments, fine
					55				Boring terminated at 50 feet.
					60				
					65				
					70				
					75				
					80				

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Supplemental Area Northeast		Boring Name SA-NE-8
DRILLING COMPANY Water Development	DRILLER Brian Fulce	Project Name Douglas Aircraft
DRILLING METHOD (S) CME-95, Hollow Stem Auger	DRILL BIT (S) SIZE 8 inches	Project Number 974002.00
DEPTH TO WATER Not Encountered		ELEVATION Not Surveyed
LOGGED BY D. Schneeberger		TOTAL DEPTH 53.5 feet
		DATE STARTED 2/27/97
		DATE COMPLETED 2/27/97

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration (lb/inch)	Head Space Reading (inches)					
			10 15 10 2 3 4 1 10	0			CL	2.5YR 3/4	Sand and Gravel Paving Sandy CLAY: dark reddish brown, very stiff, moist, moderately plastic
				0	5				decreasing sand brick debris, very hard drilling
			5 8 12	1.2	10		CL	2.5YR 3/4	Sandy CLAY: dark reddish brown, very stiff, moist, moderately plastic, fine sand, trace of silt
					15			2.5YR 4/4	reddish brown
									increasing silt
			4 12 14	0.9	20				fine to coarse sand, scattered organic material
					25		ML	2.5YR 3/4	SILT: dark reddish brown, very stiff, damp, moderately plastic, trace of clay and fine sand
			5 9 14	0.9	30				
					35				
			5 9 10	1.2	40				
							SM	2.5YR 3/4	Silty SAND: dark reddish brown, loose, damp, moderately plastic, trace of clay

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Supplemental Area Northeast					Boring Name SA-NE-8	
DRILLING COMPANY Water Development			DRILLER Brian Fulce		Project Name Douglas Aircraft	
DRILLING METHOD (S) CME-95, Hollow Stem Auger			DRILL BIT (S) SIZE 8 inches		Project Number 974002.00	
DEPTH TO WATER Not Encountered					ELEVATION Not Surveyed	TOTAL DEPTH 53.5 feet
LOGGED BY D. Schneeberger					DATE STARTED 2/27/97	DATE COMPLETED 2/27/97

Driven	Recovered	Collected	Penetration Resistance (blows/foot)	Head Space (ft)	Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
			8				SM	2.5YR 3/4	Silty SAND (Continued): dark reddish brown, loose, damp, moderately plastic, trace of clay
			25				SP	2.5YR 5/4	SAND: reddish brown, fine, medium dense, damp, trace of silt
			28		45			5YR 5/2	reddish gray
			12	0.7	50				fine dense, damp, trace of silt
			17						
			28						
					55				Boring terminated at 53.5 feet.
					60				
					65				
					70				
					75				
					80				

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Supplemental Area Northwest		Boring Name SA-NW-5
DRILLING COMPANY Water Development	DRILLER Brian Fulce	Project Name Douglas Aircraft
DRILLING METHOD (S) CME-95, Hollow Stem Auger	DRILL BIT (S) SIZE 8 inches	Project Number 974002.00
DEPTH TO WATER Not Encountered		ELEVATION Not Surveyed
LOGGED BY K. Knight		TOTAL DEPTH 50 feet
		DATE STARTED 3/3/97
		DATE COMPLETED 3/3/97

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration (blows/foot)	Head Space Reading (feet)					
		5 7 12							Fill material, consisting of sand, gravel, concrete, and plastic fragments
		5 17 18 6 8 9 2 8 9 6 12 18		0.9	5 10				
						CL	10YR 4/3		Silty CLAY: brown, moist, hard, moderately plastic
						ML	10YR 4/4		Sandy SILT: dark brown, slightly moist, hard, loose, slightly plastic
					15	SM	10YR 5/3		Silty SAND: yellowish brown, fine, dense, dry
		11 12 18		0.0	20	CL	2.5Y 4/3		Silty CLAY: olive brown, hard, moderately plastic
						ML	10YR 4/4		Sandy SILT: dark brown, slightly moist, hard, slightly plastic
					25	ML	7.5YR 3/3		Clayey SILT: dark brown, dry, hard, slightly plastic
		9 16 25		0.9	30				
		11 6 14			35				
						CL	10YR 4/3		Silty CLAY: brown, slightly moist, very stiff, moderately plastic
		10 15 22		0.3	40	SP	10YR 6/6		SAND with Silt and minor Gravel: brownish yellow with orange mottling, dense

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION Supplemental Area Northwest					Boring Name SA-NW-5	
DRILLING COMPANY Water Development			DRILLER Brian Fulce		Project Name Douglas Aircraft	
DRILLING METHOD (S) CME-95, Hollow Stem Auger			DRILL BIT (S) SIZE 8 inches		Project Number 974002.00	
DEPTH TO WATER Not Encountered					ELEVATION Not Surveyed	TOTAL DEPTH 50 feet
LOGGED BY K. Knight					DATE STARTED 3/3/97	DATE COMPLETED 3/3/97

SAMPLES					Depth (feet)	Lithology	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
Driven	Recovered	Collected	Penetration Resistance (blows/inch)	Head Space (inches)					
						SP	10YR 6/6	SAND with Silt and minor Gravel (Continued): brownish yellow with orange mottling, dense	
					45	ML	10YR 5/4	Clayey SILT: yellowish brown, dry, dense, orange mottling, some sand, some mica	
				0.0	50			Boring terminated at 50 feet.	
					55				
					60				
					65				
					70				
					75				
					80				